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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/806,898	03/23/2004	Adrian P. Stephens	884.B94US1	2401
21186 7590 02/25/2008 SCHWEGMAN, LUNDBERG & WOESSNER, P.A. P.O. BOX 2938			EXAMINER	
			PEREZ, JULIO R	
MINNEAPOL	OLIS, MN 55402		ART UNIT	PAPER NUMBER
			2617	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)			
•	10/806,898	STEPHENS, ADRIAN P.			
Office Action Summary	Examiner	Art Unit			
	Julio R. Perez	2617			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period variety received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be to will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONI	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 06 D	ecember 2007.				
,					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Disposition of Claims					
4) ⊠ Claim(s) <u>1,3-6,8,10,11,13,15-17,19-22 and 24</u> . 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1,3-6,8,10,11,13,15-17,19-22 and 24</u> . 7) ⊠ Claim(s) <u>15</u> is/are objected to. 8) □ Claim(s) are subject to restriction and/or	wn from consideration. -30 is/are rejected.	ion.			
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 11.	epted or b) objected to by the drawing(s) be held in abeyance. So tion is required if the drawing(s) is old	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list 	s have been received. s have been received in Applica rity documents have been receiv u (PCT Rule 17.2(a)).	tion No ved in this National Stage			
Attachment(s)		•			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 10/25/07.	4) Interview Summar Paper No(s)/Mail [5) Notice of Informal 6) Other:	Date			

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Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, 8, 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Roberts (US 20060166619) in view of Backes (US 20050090250).

Regarding claims 1,8, Roberts discloses a number of channels (Figure 14, CHs 1 through 10), a center channel (Figure 14, center channel 8.208 GHz on a high band, pars. 174,176, show choosing the proper center channel and adjacent channels to the center channel; thus, contiguous channels); and selecting a group of contiguous communications channels including the number of channels, a center channel (col. 5, lines 1-10, 40-60, show the selection of adjacent to include center channel).

What Roberts does not explicitly disclose is the control channel with control channel as the control channel and number of channels to one.

Backes discloses automatic channel selection to include control channels and traffic channels wherein the channels are scanned within scanning channel interval (Fig.4, #'s 20, 22, 26; par. 64, lines 4-16; par. 67, lines 1-10).

It would have been obvious to one skilled in the art at the time of the invention to modify Roberts, such that to include a control channel, to provide the control channel for transmission of control messaging information and selection of adjacent channels to avoid overlapping and interference.

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Regarding claim 11, the combination teaches the group further includes at least a portion of the contiguous communications channels to include the center channel and the control channel (Roberts, Figure 14, center channel 8.208 GHz on a high band, pars. 174,176, show choosing the proper center channel and adjacent channels to the center channel; thus, contiguous channels).

3. Claims 3, 4, are rejected under 35 U.S.C. 103(a) as being unpatentable over Roberts and Backes in view of Van De Berg (5,907,812).

Regarding Claims 3, 4, the combination teaches claim 1, but is silent on wherein alternately selecting an additional channel not included in the portion on an opposite side of the center channel as the control channel, and on a same side of the center channel as the control channel, until the specified number of channels is selected.

Van De Berg teaches a transmission scheme where a sided numbered of channels C1-C25 are spread around the center frequency on the range R, on the opposite or same side of the center frequency, which read on the portion on an opposite side of the center channel as the control channel (Figure 5, col. 7, lines 28-55).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Roberts, such that opposite or same side frequencies are chosen to correspond to center and control channels, to provide means to a better selectivity on the whole range of the frequency band.

4. Claims 5, 6, 10, 16, 17, 21, 25, 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Roberts and Backes in view of Kong et al. (US 20040192208A1).

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Regarding claims 5, 6, 10, 16, 17, 21, 25, 30, the combination teaches claim 1, but is silent on wherein selecting the group further selecting the control channel to overlap a legacy channel.

Kong teaches a transmission scheme wherein legacy channel transmissions are processed and included with center and control channels (Figure 5A, par. 31, lines 12-17, par. 45, lines 13-15; par. 47).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Roberts, such that legacy channels are covered in conjunction to 5. Claims 13, 19, 20, 22, 24, 26, 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Roberts and Backes in view Saunders et al (US 20040142696A1).

Regarding claims 13, 19, 24, the combination discloses selecting a first group of contiguous (i.e., adjacent) communications channels using a specified control channel (col. 2, lines 63-67 – col. 3, lines 1-5, 26-33, teach a selection of adjacent channels, but is silent on a signed extension channel offset.

Saunders teaches a transmission scheme wherein a numbered of channels are scanned o a burst containing a series of +/- ones frequencies (i.e., channels), which read on signed extension channels (pars. 32, 136).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Roberts, such that offset of numbered channels being integrated into the system to provide a mechanism for selecting a wider range on the frequency band.

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Regarding claim 20, the combination teaches a value of the signed extension channel offset is selected from an integer (Saunders, par. 136, +/- 1).

Regarding claim 22, the combination teaches a positive value of the signed extension channel offset refers to a frequency spectrum above a spectrum including the control channel, and wherein a negative value of the signed extension channel offset refers to a frequency spectrum below the spectrum including the control channel (Saunders, Figure 21, par. 136).

Regarding claim 26, the combination teaches a memory to couple to the channel selection module and to store an indication of the group (Saunders, pars. 136, 138-139).

Regarding claim 27, the combination teaches a memory to couple to the channel selection module and to store an indication of at least one overlapped legacy channel (Saunders, pars. 136, 138).

6. Claims 28-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Roberts and Backes and Saunders further in view of Banker et al (US 5485221A).

Regarding claim 28, Roberts teaches selecting a first group of contiguous communications channels having a specified control channel (col. 5, lines 1-10, 40-60, show the selection of adjacent to include center channel), but is silent on a signed extension channel offset and a display to display information for communication.

Saunders teaches a transmission scheme wherein a numbered of channels are scanned o a burst containing a series of +/- ones frequencies (i.e., channels), which read on signed extension channels (pars. 32, 136).

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Banker teaches displaying of virtual channel in a second contiguous portion (col. 19, lines 27-36).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Roberts, Backes and Saunders, such that offset of numbered channels being integrated into the system to provide a mechanism for selecting a wider range on the frequency band and to provide information visualized during communication.

Regarding claim 29, the combination disclose an energy conduit to couple to the group and selected from one of an Omni directional antenna and a transceiver to couple to the energy conduit and to communicate information using the first group (Saunders, pars 80-81, teach a master transceiver coupled to an Omni directional antenna for transferring energy via channels).

Allowable Subject Matter

7. Claim 15 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

- 8. Applicant's arguments with respect to claims 1, 3-6, 8, 10,11, 13, 15-17, 19-22, 24-30, have been considered but are moot in view of the new ground(s) of rejection.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Julio R. Perez whose telephone number is (571) 272-7846. The examiner can normally be reached on 10:30 6:30 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William G. Trost can be reached on (571) 272-7872. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Julio R Perez Examiner Art Unit 2617

2/18/08

JP

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